

1 1. Apparatus for displaying content from a data file comprising:
2 a media engine for presenting content data from the data file;
3 program logic for streaming content data from the data file and for coordinating a
4 presentation of the content data by the media engine, the presentation having a
5 plurality of data segments;
6 program logic for displaying an outline of the presentation during display of the
7 presentation; and
8 program logic for accessing one of the plurality of data segments within the
9 presentation upon selection of a corresponding portion of the outline of the
10 presentation.

1 2. In a computer system having a display and capable of generating a presentation
2 from a stream of data, a method comprising:
3 (a) accessing the stream of data;
4 (b) extracting content data from the stream of data;
5 (c) presenting the content data on the display;
6 (d) extracting outline data representing a plurality of data segments within the
7 presentation, the data segments linked to respective segments of the
8 presentation; and
9 (e) presenting the outline data on the display simultaneously with the
10 presentation of the content data.

1 3. The method of claim 2 wherein the plurality of segments within the presentation
2 are arranged in a hierarchical relation and wherein (f) comprises:
3 (f.1) presenting the outline data in a hierarchical arrangement, portions thereof
4 which are user selectable.

1 4. The method of claim 3 further comprising:

2 (g) generating a position icon and traversing the hierarchical arrangement of
3 outline data in correspondence with presentation of the content data.

1 5. The method of claim 3 further comprising:

2 (g) upon selection of a portion of the outline data, resolving the link to the
3 associated data segment within the presentation; and

4 (h) presenting the content data from the data stream associated with the
5 selected segment.

1 6. A computer program product for use with a computer system having a display
2 and capable of generating a presentation from a stream of data, the computer program
3 product comprising a computer useable medium having program code embodied
4 therein comprising:

5 (a) program code for accessing the stream of data;

6 (b) program code for extracting content data from the stream of data;

7 (c) program code for presenting the content data on the display;

8 (d) program code for extracting outline data representing a plurality of data
9 segments within the presentation, the data segments linked to respective
10 segments of the presentation; and

11 (e) program code for presenting the outline data on the display
12 simultaneously with the presentation of the content data.

1 7. The computer program product of claim 6 wherein the plurality of segments
2 within the presentation are arranged in a hierarchical relation and wherein (f)
3 comprises:

4 (f.1) program code for presenting the outline data in a hierarchical
5 arrangement, portions thereof which are user selectable.

1 8. The computer program product of claim 7 further comprising:

2 (g) program code for generating a position icon and traversing the
3 hierarchical arrangement of outline data in correspondence with presentation of the
4 content data.

1 9. The computer program product of claim 6 further comprising:

2 (g) program code for upon selection of a portion of the outline data, resolving
3 the link to the associated data segment within the presentation; and

4 (h) program code for presenting the content data from the data stream
5 associated with the selected segment.

1 10. In a computer system having a display and capable of generating a presentation
2 from a stream of data, a method comprising:

3 (a) accessing the stream of data;

4 (b) extracting content data from the stream of data;

5 (c) presenting the content data on the display;

6 (d) extracting linking data representing at least one link to data other than the
7 presentation data associated therewith, the linking data linked to other
8 data sources; and

9 (e) presenting the linking data on the display simultaneously with the
10 presentation of the content data.

1 11. The method of claim 10 further comprising:

2 (f) pausing the display of the content data and establishing a link to the other
3 data upon selection of the linking data by a user.

1 12. The method of claim 11 wherein the source of data is the stream of data.

1 13. The method of claim 11 wherein the source of data is external to the stream of
2 data.

1 14. A computer program product for use with a computer system having a display
2 and capable of generating a presentation from a stream of data, the computer program
3 product comprising a computer useable medium having program code embodied
4 therein comprising:

- 5 (a) program code for accessing the stream of data;
- 6 (b) program code for extracting content data from the stream of data;
- 7 (c) program code for presenting the content data on the display;
- 8 (d) program code for extracting linking data representing at least one link to
9 data other than the presentation data associated therewith, the linking data
10 linked to other data sources; and
- 11 (e) program code for presenting the linking data on the display
12 simultaneously with the presentation of the content data.

1 15. Apparatus for displaying content from a data file comprising:
2 a media engine for presenting different media types from the data file;
3 program logic for streaming data from the data file and for coordinating
4 presentation of the data by the media engine;
5 program logic for displaying relevant links from the data stream to other data;
6 and
7 program logic for resolving relevant links to the other data.

1 16. In a computer system having a display and capable of generating a presentation
2 from a stream of data, a method comprising:
3 (a) accessing the stream of data;
4 (b) extracting content data from the stream of data;
5 (c) presenting the content data on the display;

- 6 (d) extracting selection data representing at least one user-selectable region
7 within the presentation of the content data, the user-selectable region
8 associated with a command; and
9 (e) modifying the presentation of the content data upon selection of the user-
10 selectable region associated with a selectable command.

1 17. The method of claim 16 wherein (d) further comprises:

- 2 (d.1) extracting data representing a plurality of user-selectable regions within
3 the presentation of the content data, each user-selectable regions associated with a
4 command.

1 18. The method of claim 16 wherein (e) comprises:

- 2 (e.1) navigating through the presentation of the content data.

1 19. The method of claim 16 wherein (e) comprises:

- 2 (e.1) pausing the presentation of the content data and establishing a link to the
3 other data.

1 20. In a computer system having a display and capable of generating a presentation
2 from a stream of data, a method comprising:

- 3 (a) providing a data file containing a stream of data having internal
4 commands and user selectable options interleaved in the stream with presentation
5 data;
6 (b) extracting the presentation data from the data file and generating a
7 presentation thereof;
8 (c) extracting the internal commands from the data stream and interpreting
9 the internal commands;
10 (d) extracting the user selectable options from the data stream and
11 presenting the user selectable options superimposed over the presentation; and

12 (e) manipulating the presentation in response to selection of one of the user
13 selectable options.

1 21. Apparatus for displaying content from a data file comprising:
2 a media engine for presenting content data from the data file;
3 program logic for streaming content data from the data file and for coordinating a
4 presentation of the content data by the media engine, the presentation having a
5 plurality of data segments and relevant links from the data stream to other data; and
6 program logic for displaying an outline of the presentation and relevant links from
7 the data stream to other data during display of the presentation.